

IN THE CLAIMS

1. (Currently amended) An insecticide, fungicide and fertilizer composition is produced by the process comprising of mixing, heating and reacting the following components:

(A) urea, in the amount of 50 to 100 parts by weight;

(B) nitrogen containing compound that condensates and/or react with urea—~~isocyanuric acid~~

~~and/or cyanic acid~~ selected from the group consisting of urea, biuret, melamine,

melamine cyanurate, cyamelide, guanidine, cyanoguanidine, dicyandiamide,

aminoguanidine, amine, polyamine, thiourea, ammonia and mixtures thereof, in the amount

of 10 to 300 parts by weight;

(C) water, in the amount of 10 to 40 parts by weight based on 100 parts by weight of urea;

(D) salt forming compounds selected from the group consisting of phosphorus containing

compounds, boron containing compounds, boron-phosphate containing compounds,

sulfur containing compounds, alkali metal hydrogen phosphates, alkaline earth metal

hydrogen phosphate compounds and mixtures thereof, in the amount of 1 to 300 parts by

weight;

(E) filler, in the amount of 1 to 300 parts by weight;

components A and B are first reacted to produce an amino condensation compound, then component C is added, mixed and reacted, thereby producing a partially hydrolyzed amino condensation compound, then component D is added and reacted thereby producing a partially hydrolyzed amino salt composition, and then component E is added and mixed.

2. (Cancel) An insecticide, fungicide and fertilizer composition of Claim 1 wherein the nitrogen containing compound that will condensate and/or react with isocyanic acid and/or cyanic acid, produced by heating urea, is selected from the group consisting of urea, amino compounds, amines, polyamines, urea derivatives, thiourea, thiourea derivatives, guanidine carbonate, urea carbonates, ammonium carbamic acid, ammonium bicarbonate and mixtures thereof, in an amount of 10 to 300 part by weight.
3. (Cancel) The insecticide, fungicide and fertilizer composition of Claim 1 wherein the salt forming compounds are selected from the group consisting of phosphorus containing compounds, boron containing compounds, boron-phosphate containing compounds and sulfur containing compounds, and alkali metal compounds and alkaline earth metal compounds, in an amount of 0 to 300 parts by weight.
4. (Currently amended) The insecticide, fungicide and fertilizer composition of Claim I wherein the filler is selected from the group consisting of urea, melamine, dicyandiamide, melamine cyanurate, amino phosphates, aminopolyphosphates, aminoplasts, phenoplasts, powdered synthetic resins, sawdust, carbohydrates, ~~cyanuric derivatives or their formaldehyde resins,~~ ammonium sulfate, ammonium phosphate, amino phosphates, potassium phosphate, amino sulfates, silica, alkali metal silicates, alkaline earth metal silicates, metals, metal silicates, metal oxides, metal carbonates, metal sulphates, metal phosphates, ~~and~~ metal borates potassium hydrogen phosphate and mixtures thereof, in an amount ~~of~~ 1 to 300 parts by weight.
- ~~6~~ 5. (Currently amended) ~~An~~ The insecticide, fungicide and fertilizer composition ~~of Claim 1~~ wherein the partially hydrolyzed amino condensation compound is a partially hydrolyzed urea-ammonium carbamate condensation compound produced by the process comprising of
mixing, heating and reacting the following components:

(A) urea, in the amount of 50 to 100 parts by weights,

(B) nitrogen containing compound, consisting of urea and ammonium carbamate, in the

amount of 10 to 300 parts by weight:

(C) water, in the amount of 10 to 40 Parts by weight based on 100 parts by weight of urea:

(D) Salt forming compounds, selected from the group consist of phosphorus containing

compounds, boron containing compounds, boron-phosphate containing compounds,

sulfur containing compounds, alkali metal hydrogen phosphate compounds, alkaline earth

metal hydrogen phosphate compounds, and mixture thereof, in an amount of 1 to 300

parts by weight;

(E) filler, in the amount of 1 to 300 parts by weight;

reacted thereby producing a partially hydrolyzed amino salt composition, and then

component E is added and mixed.

components A and B are first reacted to produce an amino condensation compound, then

component C is added, mixed and reacted, thereby producing thereby producing a

partially hydrolyzed amino salt composition, then component D is added and reacted

thereby producing a partially hydrolyzed amino salt composition and then component E is

added and mixed.

~~7~~ 6. (Currently amended) The insecticide, fungicide and fertilizer composition of ~~Claim I~~

> ~~wherein the partially condensation compound~~ is produced by the process comprising of

mixing, heating and reacting the following components:

(A) urea, in the amount of 50 to 1 00 parts by weight;

(B) nitrogen containing compound that will react with urea, consisting of urea and urea sulfate, in the amount of 10 to 300 parts by weight:

(C) water, in the amount of 10 to 40 parts by weight based on 100 parts by weight of urea:

(D) salt forming compounds, selected from the group consist of phosphorus containing compounds, boron containing compounds, boron-phosphate containing compounds, sulfur containing compounds, alkali metal hydrogen phosphate compounds, alkaline earth metal hydrogen phosphate compounds, and mixtures thereof, in an amount of 1 to 300 parts by weight;

(E) filler, in the amount of 1 to 300 parts by weight:

components A and B are first reacted to produce an amino condensation compound, then component C is added, mixed and reacted, thereby producing a partially hydrolyzed amino condensation compound, then component D is added and reacted thereby producing a partially hydrolyzed amino salt composition and then component E is added and mixed.

~~7~~ 7. (Currently amended) The insecticide, fungicide and fertilizer composition of Claim 1 wherein the partially hydrolyzed amino condensation compound is a partially hydrolyzed urea-dicyandiamide condensation compound.

~~8~~ 8. (Currently amended) The insecticide, fungicide and fertilizer composition of Claim I wherein the salt forming compound is a phosphorus containing compounds that reacts with the partially hydrolyzed amino condensation compound and utilized as the partially hydrolyzed amino condensation composition.

~~10-9~~ 9. (Currently amended) The insecticide, fungicide and fertilizer composition of Claim ~~9~~ 8

wherein the phosphorus containing compound is an acidic phosphorus compound.

~~11~~ 10. (Currently amended) The insecticide, fungicide and fertilizer composition of Claim 9 wherein the phosphorus containing compound is an organic phosphorus containing compound.

~~12~~ 11. (Currently amended) The insecticide, fungicide and fertilizer composition of Claim I wherein the partially hydrolyzed amino condensation composition is urea-guanidine condensation compound.

~~13~~ 12. (Currently amended) The insecticide, fungicide and fertilizer composition of Claim ~~11~~ 10 wherein the organic phosphorus compound is organic phosphate.

~~14~~ 13. (Currently amended) The insecticide, fungicide and fertilizer composition of claim I wherein the water is added to the urea before heating.

~~15~~ 14. (Currently amended) The insecticide, fungicide and fertilizer composition of Claim ~~10~~ 9 wherein the acidic phosphorus compound is phosphoric acid.

~~16~~ 15. (Currently amended) A method for producing insecticide, fungicide and fertilizer compositions consisting of partially hydrolyzed amino condensation composition produced by the method comprising of mixing, heating and reacting the following components;

(A). urea, ~~—heated to form isocyanic acid and/or cyanic acid,—~~ in the amount of 100 parts by weight;

(B). nitrogen containing compound that condensates and/or react with urea ~~isocyanic acid and/or cyanic acid produced by heating a urea compound~~ selected from the group

consisting of urea, biuret, melamine, melamine cyanurate, cyamelide, guanidine,

cyanoguanidine, aminoguanidine, amine, polyamine, thiourea, digyandiamide, ammonia

and mixtures thereof, in an amount of 10 to 300 parts by weight;

(C) water, in the amount of 10 to 40 parts by weight;

(D) salt forming compound, selected from the group consisting of phosphorus containing

compounds, boron containing compounds, boron-phosphorus containing compounds,

sulfur containing compounds, alkali metal hydrogen phosphates compounds and

mixtures thereof, in the amount of ~~0~~ 1 to 300 parts by weight',

(E). filler, in the amount of ~~0~~ 1 to 300 parts by weight;

component A ~~with itself or components A~~ and B are first reacted to produce an amino condensation compound, then component C is added, mixed, heated and reacted thereby producing a partially hydrolyzed amino condensation compound, then component D is added then mixed and/or reacted, and then component E is added and mixed.

~~17~~ 16. (Currently amended) The method of Claim ~~16~~ 15 wherein the partially hydrolyzed amino condensation composition is a partially hydrolyzed urea condensation compound having the general formula of:



wherein n is a number 1-3 ~~and y is a number 1-8~~.

~~18~~ 17. (Cancel) The method of Claim 16 wherein the partially hydrolyzed amino condensation composition is a partially hydrolyzed urea-amino condensation compound having the general formula of:



wherein n is a number 1-3, y is a number 1-8 and z is a number 0-8.

~~19~~ 18. The method of Claim ~~16~~ 15 wherein the amino condensation composition is a partially hydrolyzed urea condensation compound.

~~20~~ 19. (Canceled). The product produced by the method of Claim 16.

~~21~~ 20. (Withdrawn) A fertilizer, fungicide and insecticide partially hydrolyzed amino condensation compound produced by reacting 100 parts by weight of urea with 10-40 parts by weight of water under reaction conditions.

NEW CLAIMS

21.. A method for producing insecticide, fungicide and fertilizer compositions consisting of partially hydrolyzed amino condensation composition produced by the method comprising of mixing, heating and reacting the following components;

- (A) urea, in the amount of 100 parts by weight;
- (B) nitrogen containing compound selected from the group consisting of urea and ammonium carbamate, in an amount of 10 to 300 parts by weight;
- (C) water, in the amount of 10 to 40 parts by weight;
- (D) salt forming compound, selected from the group consisting of phosphorus containing compounds, boron containing compounds, boron-phosphate containing compounds, sulfur containing compounds, alkali metal hydrogen phosphates, alkaline earth metal hydrogen phosphate compounds and mixtures thereof, in the amount of 1 to 300 parts by weight;

component A and B are first reacted to produce an amino condensation compound, then component C is added, mixed, heated and reacted thereby producing a partially hydrolyzed amino condensation compound, then component D is added then mixed and/or reacted, and then component E is added and mixed.

22. A method for producing insecticide, fungicide and fertilizer compositions consisting of partially hydrolyzed amino condensation composition produced by the method comprising of mixing, heating and reacting the following components;

- (A) urea, in the amount of 100 parts by weight;
- (B) nitrogen containing compound of urea and urea sulfate, in an amount of 10 to 300 parts by weight;
- (C) water, in the amount of 10 to 40 parts by weight;

(D) salt forming compound, selected from the group consisting of phosphorus containing compounds, boron containing compounds, boron-phosphate containing compounds, sulfur containing compounds, alkali metal hydrogen phosphates and alkaline earth metal hydrogen phosphate compound and mixtures thereof, in the amount of 1 to 300 parts by weight;

(E) filler, in the amount of 1 to 300 parts by weight;

component A with itself or components A and B are first reacted to produce an amino condensation compound, then component C is added, mixed, heated and reacted thereby producing a partially hydrolyzed amino condensation compound, then component D is added then mixed and/or reacted, and then component E is added and mixed.

23. The method of claim 22 wherein the phosphorus containing compound is an inorganic phosphorus acid compound.

24. The method of claim 22 wherein the phosphorus containing compound is an organic phosphorus compound.